

5 material strips being connected to one another at said contact points of the straight vertical partial areas.

2 (AMENDED) A honeycomb structure in accordance with claim 1, wherein the material strips are films of plastic, paper, metal or composite materials.

61 3. (AMENDED) A honeycomb structure in accordance with claim 1, wherein the material strips are welded to one another.

4. (AMENDED) A honeycomb structure in accordance with claim 1, wherein the material strips are bonded to one another.

5 5. (AMENDED) A device for manufacturing a honeycomb structure with a plurality of flexible material strips arranged next to one another, the strips being connected to one another, the material strips having a corrugated shape with a U-shaped cross section of essentially straight vertical partial areas and curved horizontal partial areas, the material strips being connected to one another at the contact points of the straight vertical partial areas, the device comprising:

welding sections guiding the flexible material strips;

a comb-like finger system, said material strips being welded to one another with the comb-like finger system, the finger system or the welding sections being laterally displaced by

two sections;

a pressing-on device between the finger and the welding section pressing two material strips onto a heated welding wire to produce a thermal connection of the material strips.

6. (AMENDED) A device in accordance with claim 5, wherein fingers of the finger system are equipped with a heating wire for welding together the material strips.

91
7. (AMENDED) A device in accordance with claim 5, wherein both the welding sections and the fingers are equipped with a heating wire for welding together the material strips.

8. (AMENDED) A device in accordance with claim 5, wherein the welding sections or the fingers may also be equipped with high-frequency or ultrasonic welding units.

9. (AMENDED) A device in accordance with claim 5, wherein the welding sections or the fingers may also be equipped with laser welding units.

10. (AMENDED) A device in accordance with claim 5, wherein the welding sections or the fingers may also be equipped with heated metal straps, metal elements or heating cartridges as welding units.

11. (AMENDED) A device in accordance with claim 5, wherein the welding sections or the fingers may also be equipped with hot air welding units.

12. (AMENDED) A device in accordance with claim 5, wherein the welding sections or the fingers may also be equipped with induction welding units.

91
13. (AMENDED) A device in accordance with claim 5, wherein the welding sections or the fingers may also be equipped with friction welding units.

14. (AMENDED) A device in accordance with claim 5, wherein the feeding of the honeycomb can be accomplished by means of the slide elements at the welding sections, but also with finger systems which move into the completely welded honeycomb and subsequently perform a feed motion.

REMARKS

Claims 1 through 14 are in this application and are presented for consideration. Claims 1 through 14 have been amended. The amended claims present the same subject matter as the original claims but have been amended to adapt them to the U. S. style.

The specification and claims have been amended in order to place this application in better form. The reference to claims in the specification has been deleted or amended. Appropriate headings have been added. No new matter has been added.